

Amendments to the Claims

Please cancel Claims 6, 10-13, 15-20, 22, 25-26, 28-40. Please amend Claims 1, 7, 14, 21, 23-24, 27. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

1. (Currently Amended) A system for generating a display of a body structure and for providing haptic feedback to a medical practitioner, said system comprising:
 - a master station that includes a user interface;
 - a slave station that includes a medical implement;
 - a sensor on the medical implement positionable at an internal body site for sensing a non-visible field of a body structure at the site ~~and generating a sensor signal indicative of the field;~~
 - a measurement system responsive to said sensor for providing a sensor signal indicative of the field strength;
 - a controller intercoupling the master and slave stations and responsive to manipulations at the user interface by said medical practitioner to control said medical implement;
 - ~~a transformation system for~~ said controller transforming the sensor signal into virtual image data representative of the body structure;
 - a source of visual image data for the site; and
 - a ~~visual~~ display system enabling combined display of the visual image data and the virtual image data for observation by the medical practitioner at the master station;
 - said controller transforming the sensor signal into a tactile feedback signal, said user interface receiving said feedback signal for providing a tactile response to the medical practitioner at the user interface.
2. (Original) The system of claim 1, wherein the non-visible field is at least one of an electrical field, a thermal field, an infrared field and a radioactive field.

3. (Original) The system of claim 1, wherein the sensor is at least one of a voltage sensor, a thermal sensor, an infrared sensor, and a radioactive sensor.
4. (Original) The system of claim 1, wherein the sensed field is associated with at least one of a nerve, nerve bundle and vascular vessel.
5. (Original) The system of claim 1, further including:
a stimulator emitting a stimulation signal for at least one of enhancing and generating the field.
6. Canceled.
7. (Currently Amended) The system of claim 1, wherein the ~~transformation system~~ controller includes, for at least one select site, an associated signature value of the virtual image data.
8. (Original) The system of claim 1, wherein the virtual image data defines a boundary of the field.
9. (Original) The system of claim 5, wherein the stimulator emits at least one predefined stimulation signal for an associated body site.
- 10-13. Canceled.
14. (Currently Amended) The system of claim ~~11~~ 1, wherein the ~~non-visible field is at least one of an electrical field, a thermal field, an infrared field and a radioactive field~~ magnitude of the tactile response is a function of the magnitude of the sensor signal.
- 15-20. Canceled.

21. (Currently Amended) The system of claim ~~11~~ 1, wherein the sensor is disposed at a distal end of a medical instrument.
22. Canceled.
23. (Currently Amended) The system of claim ~~22~~ 21, wherein the medical implement includes a tool used to perform a medical procedure at the site.
24. (Currently Amended) The system of claim ~~11~~ 1, further including:
a hand-engageable user interface providing input to a computer for positioning of the ~~instrument~~ implement.
- 25-26. Canceled.
27. (Currently Amended) The system of claim ~~11~~ 1, wherein the ~~transformation system~~ controller includes: modeling data for associating the virtual image data with locations at the site.
- 28-40. Canceled.